CTIO Dark Energy Camera Meeting
Fermilab- Dec 5 and 6
Silicon Detector Facility Conference Room
Draft, Version 13, December 1, 2003

Friday, December 5: Morning Session (about 3 hrs)

The meeting will start at 8:45 AM so that David Sprayberry can start promptly at 9 AM.

Introduction and Overview (Peoples) - 15min

NOAO partnership and announcement of opportunity (D. Sprayberry)- 20 min

Science Drivers/Science Requirements: 1hr 20 min. 5 minutes of discussion are allowed after each talk.

- Dark Energy studies with galaxy clusters (Mohr) - 15min
- Dark Energy studies with the cosmic shear (Frieman) - 15mn
- Dark Energy and the ISW (Stebbins) – 15min
- Photometric redshifts (Lin) –15 min

There will be a break between 10:40 and 11:00 AM.

- Supernovae with the Dark Energy Camera (C. Smith) – 15 min

Science discussion: This discussion, which will be moderated by Mohr, will be about 1 hour in duration. We would like the participants to comment on the question "Where does the Dark energy Camera fit in with other future projects such as VST/Vista, LSST, and PanSTARRS?" The session should be aimed at establishing our science goals and requirements and whether the dark energy camera will competitively achieve our goals. It should start by 11:00 AM and end no later than 12:15 PM.

Box lunch will be served at Sidet at 12:15.

An informal tour of Sidet will be arranged during lunch for people who will not be attending the Saturday sessions

Friday Afternoon Session #1 (resume at 1:00 PM for about two hr.)

Survey Strategy and Calibration: 1hr min, including 5 min discussions. after each talk

- Observing Strategy (Annis) - 15m
- Standard Star network (Tucker) - 15m
- Photometric Calibration; (Kent) - 15m

Calibration discussion: This is intended to establish the requirements for calibration and it is intended to last for about one hour. Huan Lin will moderate the discussion.

We need a presentation of the requirements for astrometric calibration since Jeff Munn will not be able to participate. Joe Mohr has been asked to comment on the use of the HST guide star catalog for photometry and astrometry as the minimum calibration requirements. Albert Stebbins has been asked to comment on the need and approach for simulations.

This discussion at is scheduled to end no later than 3:15 PM. If we do this we have the option of going to Wilson Hall for wine and cheese at 3:30 PM and then starting session # 2 at 4:00 PM in 1-North, which does not have videoconferencing facilities. We can make a decision next week.

Friday Afternoon Session #2 (about one and half hrs in length starting at 4:00 PM)

Survey Data Management (About 1hr 15min)

- Overview/ Straw man Layout (Brunner)- 15min
- SDSS Data Flow from Mountain to Database; (Stoughton) - 15min
- Essence and Macho approach to data processing pipelines (Chris Smith)- 15min
- Distribution and Archiving; (Plante) - 15min

We should allow some discussion at the end of each talk.

No discussion session has been scheduled given the hour and the expectation that there will be another workshop in Urbana-Champaign that will emphasize software, data management and data distribution issues. The workshop is provisionally scheduled for February 5 & 6.

Saturday Morning Session (At Sidet for about 2 hrs 30m))

Telescopes and Imagers (The session will start at 9 AM)
(The session will last 3 hours and the time duration includes 5min discussions after each talk and a break.)

- Performance of Mosaic and expectations for instruments on the Blanco 4m telescope in 2008 (Walker) - 15m
- Overview of prime focus cage and camera layout (Flaugher) – 15min
- High resistivity CCD development at LBNL (M. Levi) – 15 min
- Proposal for CCD testing at Fermilab (Wester) – 15 min

A 15-minute break should occur after this talk.

- SDSS camera and challenges (Rockosi) – 15m
- Dark Energy Camera Data Acquisition and the application of the Monsoon architecture to the dark energy camera - 15min (Thaler) – 15m

Box lunch at Sidet at 12 PM followed by a tour of the Sidet facilities

Saturday Afternoon Session

Detector discussion session, which will be moderated by Annis, will start at 1:00 PM and last for about one hour.

- This should be aimed at discussing a plan that will allow us to initiate detector testing and then make detector choices. We will ask Alistair Walker to comment on E2V plans for red sensitive array development. Comments on the pace of development and testing of the OTA arrays are welcome. If others can briefly comment on other approaches (for example LSST/CMOS) their comments are welcome.

The preliminary layout of the camera and the prime focus cage, which will have been presented earlier by Brenna Flaugher, should be discussed here as well.

General Discussion on the next steps for the project plans

Closing remarks (Peoples)

Revised 1 December 2003